

Hurricane/Flood/Earthquake/Tsunami/Etcetera Emergency Alert Systems And Procedures: Possible Alternative Ideas

Here are some ideas concerning possible alternative Emergency Alert Systems And Procedures: Countries without a formal alert system to notify their populations, could perhaps use: small, fast aircraft such as: remotely piloted reconnaissance airplanes or drones, spotter planes, jet planes, gliders, helicopters, planes leased from or donated by private individuals or commercial enterprises, or totally new designed aircraft, etcetera, with words such as: "TSUNAMI ALERT," "HURRICANE ALERT," " FLOOD ALERT," "EMERGENCY EVACUATION," "TORNADO ALERT," "FOREST FIRE ALERT," "AVALANCHE / LANDSLIDE ALERT," "VOLCANIC ERUPTION," "TOXIC CHEMICAL SPILL," etcetera, in large red lettering, illuminated by floodlights, or spelled out in bright red, white, orange lights, etcetera, on the top/bottom of the wings, on the fuselage, or on specially devised structures, etcetera, to safely alert the residents, visitors, beachgoers, fishermen, surfers, small boats, and ships at sea, of an oncoming or imminent: tsunami, tornado, hurricane or monsoon, volcanic eruption, forest fire, or other possibly catastrophic emergency. Possibly a way could be devised to quickly change the Emergency Alert message from one alert to another and perhaps back again to the original alert(s) and possibly display more than one message at a time, not only on aircraft, but also on: ships, boats, vehicles, structures, signs, devices, etcetera. Red or white strobe lights on the underside of the aircraft or on the wings of the aircraft, red or white emergency flares dropping from the aircraft, perhaps red or white exhaust smoke, airplane sirens, and loudspeakers, mounted on the aircraft could also be used. Perhaps, a large and/or fast and/or low-flying type of aircraft, which makes a large amount of noise in it's normal, safe mode of operation, could possibly be safely used to alert the population of any pending or existing emergencies by the noise and vibrations generated by the aircraft itself. An emergency alert message could possibly be "skywritten" or "skytyped" by one or more planes, if time and weather conditions permit. Another idea, which would require less added accessories, would be to have two or more aircraft race through the sky, day or night. in a pre-determined pattern, such as a streaking arrowhead,

which the resident population would already know as an EMERGENCY ALERT WARNING SIGNAL. If the affected area is relatively small, planes and/or helicopters could possibly quickly drop "Emergency Tsunami Alert Warning" or "Emergency Alert Hurricane Warning," "Flash Flood," type leaflets in areas where the population does not have access to radio or television. These leaflets could possible contain information regarding the exact type of emergency, what preparations should be made, perhaps where to seek emergency shelter and emergency supplies, which hazards to avoid, such as polluted water and downed power lines, and which radio and/or television stations to tune in for further emergency instructions and news. If time, conditions, and safety considerations permit, these aircraft could also perhaps drop some very essential survival items such as food, water, blankets, etcetera, and possibly assist in search and rescue activities. Perhaps a small booklet, or some type of "trading card," with photographs and descriptions of emergency alert aircraft, all types of emergency vehicles, and pertinent emergency safety and procedure information, could somehow be distributed to schoolchildren, residents, visitors, etcetera. Also, the local Emergency Alert Offices could send a warning signal, not only to television and radio stations, but to cellular telephone service providers, who themselves could send out an Emergency Alert. The same type of warning signal could be sent to large electronic message signs on highways, in towns or cities, on coastlands, at airports and seaports, at sporting events, etcetera, to warn the population of impending emergencies and to provide information such as best alternate routes to take to avoid such emergencies. Cities and towns may wish to plan and establish emergency evacuation routes. One possible idea, to speed evacuations, would be to allow traffic to use outbound highway lanes as well as some previously designated inbound lanes, cleared marked with signs and/or traffic safety cones, when leaving a disaster site or whenever a large and expedient exodus of vehicles and pedestrians is necessary. Another plan, would be to have speedboats, with sirens, loudspeakers, emergency warning lights, and warning signs, such as "HURRICANE ALERT," "TSUNAMI ALERT," "FLOOD ALERT," " DANGER OIL SPILL," "TIDAL WAVE ALERT," etcetera, on the sides, racing along the shoreline of: oceans, rivers, lakes, canals, or any other navigable body of water, firing red flares or aerial rockets into the air to warn people,

boats and ships.. One possible low cost solution for private or very remote rural areas, would be to use inexpensive, small, sirens, loudspeakers, or truck and automobile horns, as warning devices. These devices could be securely attached to utility poles, the outsides of buildings, or even on trees and fence posts, if necessary. Of course, the Best solution would be to have the Best emergency equipment for everyone in all areas. Perhaps, properly marked, offshore artificial barrier reefs, using large rocks, recycled heavy-duty plastics, slabs of broken concrete, stones, bricks ,or recycled steel from vehicles, planes, bridges and steel-hulled ships, could deflect the force of the oncoming waves and help fish populations. More technical ideas, perhaps, would include: installing buoys, or other devices, in suitable locations, that can possibly detect the direction, speed, and/or size of a tsunami wave and fire off red or white flares or use some other type of visual or audible warning system, such as a tower of flashing lights and sirens on the top of the buoy, and send/set off alarms, whenever and wherever appropriate. In the event emergency information needs to be first transmitted from a tsunami warning buoy, or other type of emergency warning device, to a satellite and then transmitted to a emergency warning center, or any other appropriate location, and satellite communications systems are disrupted, completely or in part, at the time the information needs to be transmitted; possibly some type of technology, professionally tested and approved, could exist at the present time or in the future, that would permit an emergency warning buoy, or any other device, to transmit information to an warning center, and/or any other appropriate location, without the use of any type of satellite communication system, in whole or in part. Steel structures, on land or on sea, perhaps even as large and tall as offshore oil rigs, could have remote cameras, loudspeakers, sirens, sensing devices and transmitters to trigger emergency alerts to local Civil Defense, Police and Armed Forces Emergency Communications Centers and Systems, coastal residents, beach hotels, beachgoers, small boats and ships at sea, and have even taller antennas with blazing signal lights. Another general idea would be: permanent signs installed along the coastline as well as in the interior of a country, explaining what to do, where to go, and how to receive emergency information and instructions. In addition to emergency numbers and

emergency phones, for the public to use to alert: fire, police, and ambulances, etcetera, perhaps governments and municipalities may also wish to create a system of Civil Defense emergency numbers and emergency Civil Defense phones. Lighthouses could possibly install an exclusive TSUNAMI/HURRICANE. etcetera, red warning lens. Foghorns, of lighthouses and large ships, could sound a special EMERGENCY ALERT WARNING SIGNAL . Trains, trucks, buses, automobiles, etcetera, could also be used as part of a General Alert System. Their horns or some other suitable audible device could sound a particular alert warning. There could also be special emergency warning lights on all sides of the vehicles. The vehicles could display some type of sign or banner to alert the public, as well as, help in the transport of civilians, pets, emergency personnel, and needed supplies, to and from a disaster area. Hotels or other tall buildings, in affected areas, may be used as a type of "lighthouse" with special red emergency floodlights, sirens and loudspeakers on the roof and all sides of the building. These buildings could also house Emergency/Disaster Alert Communication Centers, garage emergency vehicles and evacuation buses, and serve as shelters for displaced persons. Shelters for animals could also be set up, in advance, in suitable buildings or enclosures. Governments and local municipalities could perhaps, in advance of any reasonably foreseen emergency, inform their citizens how to properly house, transport, and what amounts of food and water should be prepared ahead of time, to assist in the survival of their pets and livestock. Such preparations could perhaps reduce the stress on both the animals, their owners and emergency rescue personnel. Another idea would be to have sensors and signals to activate special lights, sirens, or other types of alarms, at ports and airports, and in local communities, to alert incoming planes and ships, or planes and ships that have already landed or docked, and the population in general, that there is an Immediate Emergency such as an flood, dam or levee collapse , earthquake, volcanic eruption, landslide or avalanche, sudden change in the direction or intensity of a tornado or hurricane, high winds or high waves, etcetera. Although I am not sure if such equipment has been already thought of, invented, professionally tested, or in the marketplace yet, there appears to possibly be a need of a reasonably-priced device for individuals, and individuals with special needs, to use, on their person, in

their homes , autos, offices, in unique situations, in unique locations, etcetera , that is actually able to notify them and leave messages, with some type of signal or alarm, With or Without the use of telephone, radio, television, or computer technology etcetera, that the same types of Immediate Emergencies, which give little or no warning, especially an earthquake, are actually taking place there and then, in the immediate future, or in a surrounding area Possibly, the same type of device could exist, now or in the future, which could also notify and leave messages for more than one individual at a time, including large groups or large crowds of people. Inexpensive warning devices, for home use, could include a stack of clean, empty cans or small wooden blocks, plastic dinnerware, etcetera, which would topple, and make sufficient noise to alert the family members in case of an earthquake. Larger, perhaps gallon-size empty cans, could be stacked near the borders of a family's property to alert themselves, as well as neighbors, of rising water, high waves, and high winds. Larger wind chimes, cow bells, or similar devices, could be hung in trees at distant points on the property to also alert the family and neighbors. Perhaps some sort of sensing apparatus or device could be, or has been, devised and professionally tested, which could be hung off a parked vehicle, a fence post, the side of a boat , or any other stationary, anchored, floating, craft or object, which would detect, and send an immediate alarm, indicating a sudden and potentially dangerous rise in the water level inland , such as unusually heavy rainfall, or flash flood , or shoreline tidal disturbances, such as: a flood tide, storm or hurricane tide, or a sudden receding of ocean water, near the shoreline, which may occur prior to a tsunami or tidal wave. A more advanced type of warning system May be the use of lasers, such as those used in outdoor public displays, which May be able project large, brief, alert messages, at night, Safely, on the blank or unpopulated sides of unobstructed, tall buildings, on snow covered hillsides, or even on clouds in the sky if weather conditions are correct. Perhaps "Universal" or "Worldwide" Symbols, Emblems, Decals, Signs, Broadcast Signals, etcetera, could be established which signify or represent each specific emergency, such as: "FLOOD ALERT," "HURRICANE ALERT," "TORNADO ALERT," "FOREST FIRE ALERT," "TIDAL WAVE ALERT," "TSUNAMI ALERT", "EARTHQUAKE ALERT", "EMERGENCY EVACUATION," etcetera. Possibly, one or more of these

Emergency Warning Symbols, Emblems, Decals, Signs, etcetera, could somehow be attached, in a way that would allow them to be somewhat easily changed and removed, to appropriate: aircraft, watercraft, structures, signs, vehicles, devices, uniforms and clothing, etcetera, and also used on appropriate letters, notices, memorandums, messages, etcetera. In addition to governmental agencies, perhaps a civilian, volunteer, Civil Emergency Taskforce, could be established to assist federal, provincial, state, county, and local Civil Defense authorities.

Also, humane and careful studies could possibly be undertaken in all fields of endeavor, such as the study of the natural and physical sciences, etcetera, to determine the reliability, feasibility, and practical applications of any type of prior Indicators or Forecasters, of natural or manmade disasters, which may exist in nature and elsewhere, and perhaps may somehow assist in the saving of lives and property and the prevention of such disasters in the future.